

JPL C-16984  
CIT 1917  
Docket JPL87-008

DECLARATION AND POWER OF ATTORNEY  
(Sole Inventor)

As the below named inventor, I hereby declare that:

I believe that I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled OPTICALLY INTRACONNECTED COMPUTER EMPLOYING DYNAMICALLY RECONFIGURABLE HOLOGRAPHIC OPTICAL ELEMENT described and claimed in the attached specification. I have reviewed and understand the contents of the specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint <sup>601</sup>Donald A. Streck, Registration No. <sup>301</sup>27,059, 62319 Alameda Ave., Suite 2F, Ventura, CA 93003, (805) 644-4035, my attorney with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Wherefore, I hereby subscribe my name to the foregoing specification and claims, declaration and power of attorney.

Full name of inventor: <sup>40101</sup>Larry A. Bergman

Inventor's signature: Larry A. Bergman

Address: 6901 Chisholm Ave., Van Nuys, CA 91406 <sup>611</sup>

Citizenship: United States

Date: 9/29, 1987

JPL C-16984  
CIT 1917  
Docket JPL87-008

VERIFIED STATEMENT (DECLARATION)  
CLAIMING SMALL ENTITY STATUS  
(Non-Profit Organization)

As assignee of the below identified invention, I hereby declare that the California Institute of Technology ("CALTECH"), an institution of higher education, is tax exempt under Internal Revenue Service Code (26 USC 501(a) and 501(c)(3)) and is an educational organization pursuant to the California Corporations Code, Sections 5000, et seq., and, therefore, qualifies as a Non-Profit Organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled OPTICALLY INTRACONNECTED COMPUTER EMPLOYING DYNAMICALLY RECONFIGURABLE HOLOGRAPHIC OPTICAL ELEMENT described in the specification filed herewith.

CALTECH has not assigned, granted, conveyed or licensed and is under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e) or a Federal Agency having or entitled to a license as defined in 35 USC 202(c)(4).

Each person, concern or organization to which CALTECH has assigned, granted, conveyed, or licensed or is under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed as follows:

United States of America as represented by the  
Administrator of the National Aeronautics and Space  
Administration, Washington, DC 20546

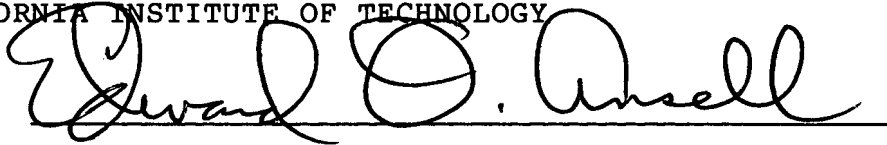
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate.  
(37 CFR 1.28(b))

Verification of Small Entity Status  
Page 2

I hereby declare that I am empowered to act on behalf of CALTECH in this matter and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

CALIFORNIA INSTITUTE OF TECHNOLOGY

By:

A handwritten signature in dark ink, appearing to read "Edward O. Ansell", is written over a horizontal line.

Title: Director of Patents and Licensing

Date: September 29, 1987

## PRIOR ART DISCLOSURE

103 192

#2

dm

4-38-86

\* **INSTRUCTIONS:** Rule 1.56 defines the duty of those who are implicated in the preparation and prosecution of a patent application to disclose to the U. S. Patent Office any prior art which is relevant to or reasonably close to the invention, and which is known or becomes known to them before the patent, if any, is issued. The inventor, attorney and others involved in the work of obtaining a U. S. Patent on an invention appear to be subject to the duty of disclosure. Breach of Rule 1.56 may result in denial of the application or invalidation of a patent which may later issue thereon. The rule does not impose a duty to search out or discover prior art. Therefore, "suspected" prior art which cannot be cited or is not readily at hand need not be entered on this form. Prior art, for purposes of completing this form is any printed publication or other document which became available or accessible to members of the public before the filing of the patent application.

Case No. C-16984 - CIT 1917Date Prepared: September 29, 1987TITLE: OPTICALLY INTRACONNECTED COMPUTER EMPLOYING DYNAMICALLY RECONFIGURABLE HOLOGRAPHIC OPTICAL ELEMENT

This is an [ ] initial [ ] updated prior art disclosure. If possible, attach a copy of each of the documents identified below. NOTE: PATENTS AND DOCUMENTS RESULTING FROM NOVELTY, PATENTABILITY OR OTHER FORMAL SEARCH SHOULD NOT BE LISTED.

Citations (by title, source, date, author, relevant pages, figs., etc...)	Name or Initial of Inventor or Staff Member
None	

Continuation sheets None (insert no. or "none")

Aside from the prior art resulting from the novelty or patentability search, if any, of record in this case, the item(s) of possible prior art identified herein are all that I know about; and, if my name or initial does not appear above, I have no knowledge of any relevant prior art.

Robert S. Jamieson  
Cog. Staff Mem. (type)Robert S. Jamieson  
SignatureDate: 9/29/87Larry A. Bergman  
Inventor (type)Larry A. Bergman  
SignatureDate: 9/28/87  
Inventor (type)  
SignatureDate:   
Inventor (type)  
SignatureDate:   
Inventor (type)  
SignatureDate:   
Inventor (type)  
SignatureDate: